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APPLICATION NUMBER: 60/548,812

FILING DATE: February 27, 2004

By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS



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13142 U.S. PTO

PTO/SB/16 (01-04)

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No. EL913826488US

472 U.S. PTO
60/548812

022704

INVENTOR(S)

Given Name (first and middle (if any))	Family Name or Surname	Residence (City and either State or Foreign Country)
Franklin	SELGERT	Berkel en Rodenrijs, the Netherlands

Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (500 characters max)**MULTIPLE TICKETS IN SMART CARDS FOR RECEIVING CONTENT**Direct all correspondence to: **CORRESPONDENCE ADDRESS**☒ Customer Number: 007265

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ENCLOSED APPLICATION PARTS (check all that apply)☒ Specification Number of Pages 5

CD(s), Number _____

☒ Drawing(s) Number of Sheets 2Other (specify) Postcard receipt and Fee Letter (in dupl.)☒ Application Data Sheet. See 37 CFR 1.76**METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT**☐ Applicant claims small entity status. See 37 CFR 1.27.☒ A check or money order is enclosed to cover the filing fees.☒ The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 13-3083☐ Payment by credit card. Form PTO-2038 is attached.FILING FEE
Amount (\$)

\$160.00

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____

[Page 1 of 2]

Respectfully submitted,

SIGNATURE

TYPED or PRINTED NAME Peter L. MichaelsonTELEPHONE 732-530-6671Date February 27, 2004REGISTRATION NO. 30,090

(if appropriate)

Docket Number: PTT-193/Prov**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(PTT193PROVTRANS/ca:126)

MICHAELSON & ASSOCIATES

Doc. No. PTT-193/Prov(402882US/prov)

February 27, 2004

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PROVISIONAL PATENT APPLICATION - FEE TRANSMITTAL FORM

Enclosed herewith for filing is the following
provisional patent application:

Applicant: Franklin SELGERT

Title of application: MULTIPLE TICKETS IN SMART CARDS FOR
RECEIVING CONTENT

Pages of application: 5

Sheets of drawings: 2 (FIGS. 1-3)

Docket No.: PTT-193/Prov(402882US/prov)

PROVISIONAL PATENT APPLICATION FILING FEE CALCULATION

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TOTAL FILING FEE \$ 160.00

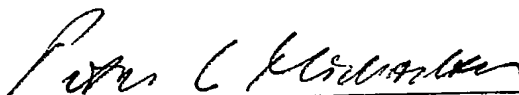
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of this letter is enclosed herewith.

Also enclosed herewith for filing in connection with the enclosed application are:

XX Postcard Receipt;
XX Application Data Sheet; and
XX Provisional Application for Patent Cover Sheet (in duplicate).

Respectfully submitted,

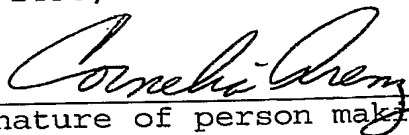


Peter L. Michaelson, Attorney
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*****EXPRESS MAIL CERTIFICATION*****

"Express Mail" mailing label number: EL913826488US
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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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Cornelia Arenz

Name of person making certification

MULTIPLE TICKETS IN SMART CARDS FOR RECEIVING CONTENT

FIELD OF THE INVENTION

5 The present invention relates to a method of using tickets on smart cards, and to smart cards in which tickets are stored. In particular, the present invention relates to the secure storing, validating and verifying of multiple tickets on smart cards, multiple tickets being tickets that may be used more than once.

SUMMARY

European Patent Application EP 0 829 828 describes a smart card which allows tickets to be efficiently stored, whereby the smart card (1) comprises an integrated circuit having a processor and a memory, the memory comprising tickets, a ticket
15 comprising an entitlement field for storing data relating to the entitlement of the ticket, and a validation field for storing data relating to the validity of the ticket . The ticket on the smart card comprises a validation count field for registering the number of times the ticket may be validated.

20 By providing a validation count field, it is possible to validate the same ticket more than once while strictly controlling the number of times the ticket may be used. As a multiple ticket of this type requires hardly more memory space than a regular ticket, a very efficient memory use is achieved.

25 Every time a ticket is used, the validation count field is decreased. Decreasing the validation count field can be done by a terminal. For instance, the terminal resides at a location in a theatre where the terminal is used for validating the ticket. When a person wants to enter the theatre he has to let the ticket be validated by the terminal, after which the validation count field is decreased.

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According to the present invention the ticket (20) (FIG. 1) can also be used for receiving content on a device (30) of a user from a content provider (31) (FIG. 2). According the present invention it is also identified that the content provider (31)
35 also can issue the ticket (20). Further, it is identified according to this invention that the ticket (20) can be validated each time the user views or uses content that already resides on the device (30).

The content can be any kind of information, video- or audio content, or any kind of multi-media content. Examples of content are weather information, ringtones, video's, person-to-person communication, and one-to-many communication such as broadcasted content. The content can also be content that is received by the user when a service is provided to the user by the content provider (31). The device (30) can be a mobile device, although other device types are not excluded in this invention.

When a ticket (20) is used for accessing content, the following can take place. The content provider (31) issues the ticket (20) by sending the ticket (20) to the device (30) via a network of a communication provider (32). The ticket (20) can be a digital rights object that enables the user of the device (30) to perform an action according to certain rights. The network can be a mobile network, although this invention is not limited to situations where a mobile network is used. When the user wants to receive content, the content is sent by the content provider (31) to the device (30), after which the validation count field (26) of the ticket (20) residing at the device (30) is decreased. After the content is received by the device (30), the user can view or use the content.

If the user wants to view or use the same content again, the content provider (31) sends again this content to the device (30). This is not an efficient procedure since the same content has been sent already to the device (30). If the content is stored on the device (30) after this content has been received by the device (30) for the first time, it is possible to let the user view or use this content without having to send this content to the device (30) again. In such a much more efficient procedure, the ticket (20) can be validated each time the user views or uses the stored content in stead of validating the ticket (20) each time the content is received by the device (30).

In order to use the ticket (20) in such an enhanced procedure, a local- or network key generator may be used for activating the ticket (20) after the ticket (20) has been issued. If security measures are taken during the issuing of the ticket (20), the security measures relating to the validation of the ticket (20) residing on the device (30) can be relatively simple.

In an embodiment of the present invention the party that issues the ticket (20) and the party that provides the content can be the same content provider (31). In such

a case the ticket (20) and the content originate from the same party, which simplifies the security measures to be taken. The ticket (20) can be restricted to be used for accessing only content provided by the content provider (31) that issued the ticket (20).

5

As an example, a content provider dedicated ticket may comprise (FIG. 3): an entitlement field (21), a validation field (22), a verification field (23), a price field (24), a sequence number field (25), and a validation count field (26). The identity of the content provider (31) that issued the ticket (20) can be stored in the entitlement field (21). In practice, a ticket (20) may comprise additional fields to those that are mentioned before. Also, a ticket (20) according to the present invention may comprise less fields, or more fields of the same type, e.g. two verification fields.

10

15 It may also be the case that for each application type (such as gambling, viewing previews, etc.) there is another type of ticket. A ticket (20) may then only be used for that type of applications where it is intended for.

The invention is not limited to tickets that are stored electrically on a smart card.
20 Also tickets that are stored on a smart card magnetically are taken into account.

1. Smart card (1) comprising an integrated circuit (10) having a processor and a memory, the memory comprising tickets (20), a ticket comprising an entitlement field (21) for storing data relating to the entitlement of the ticket, a validation field (22) for storing data relating to the validity of the ticket, a ticket (20) further
5 comprises a validation count field (26) for storing a validation count representing the number of times the ticket (20) may be validated, whereby the validation count is arranged for being decreased upon each validation of the ticket (20), a further validation of the ticket being blocked when the count has a predetermined value, the predetermined value preferably being zero, and whereby the ticket (20) is
10 validated each time content is received from a content provider (31).
2. Smart card (1) according claim 1, whereby the content provider (31) both issues the ticket (20) and provides the content where the ticket (20) is used for.
- 15 3. Smart card (1) according claim 1 or 2, whereby the ticket (20) is validated each time content is viewed or used by a user.
4. Smart card (1) according claim 1, 2 or 3, whereby the ticket (20) only can be used for a specific type of content.
- 20 5. Smart card according to any of the preceding claims, wherein a ticket (20) further comprises a price field (24) for storing the price of the ticket and/or the price of a single use of the ticket.
- 25 6. Smart card according to any of the preceding claims, wherein a ticket (20) further comprises a sequence number field (24) for storing the sequence number given to the ticket (20) by an issuing terminal.
- 30 7. Smart card (1) according to any of the preceding claims, wherein a ticket (20) further comprises at least one verification field (23; 24) for storing data relating to a check of the validity of the ticket.
8. Smart card (1) according to any of the preceding claims, wherein the ticket (20) can only be used for accessing a specific type of content provided by the content
35 provider (31).

9. Method of using a tickets (20) on a smart card (1) according to any of the claims 1 to 6, whereby the validation count is arranged for being decreased upon each validation of the ticket (20).

(PTT193PROVAPP/ca:126)

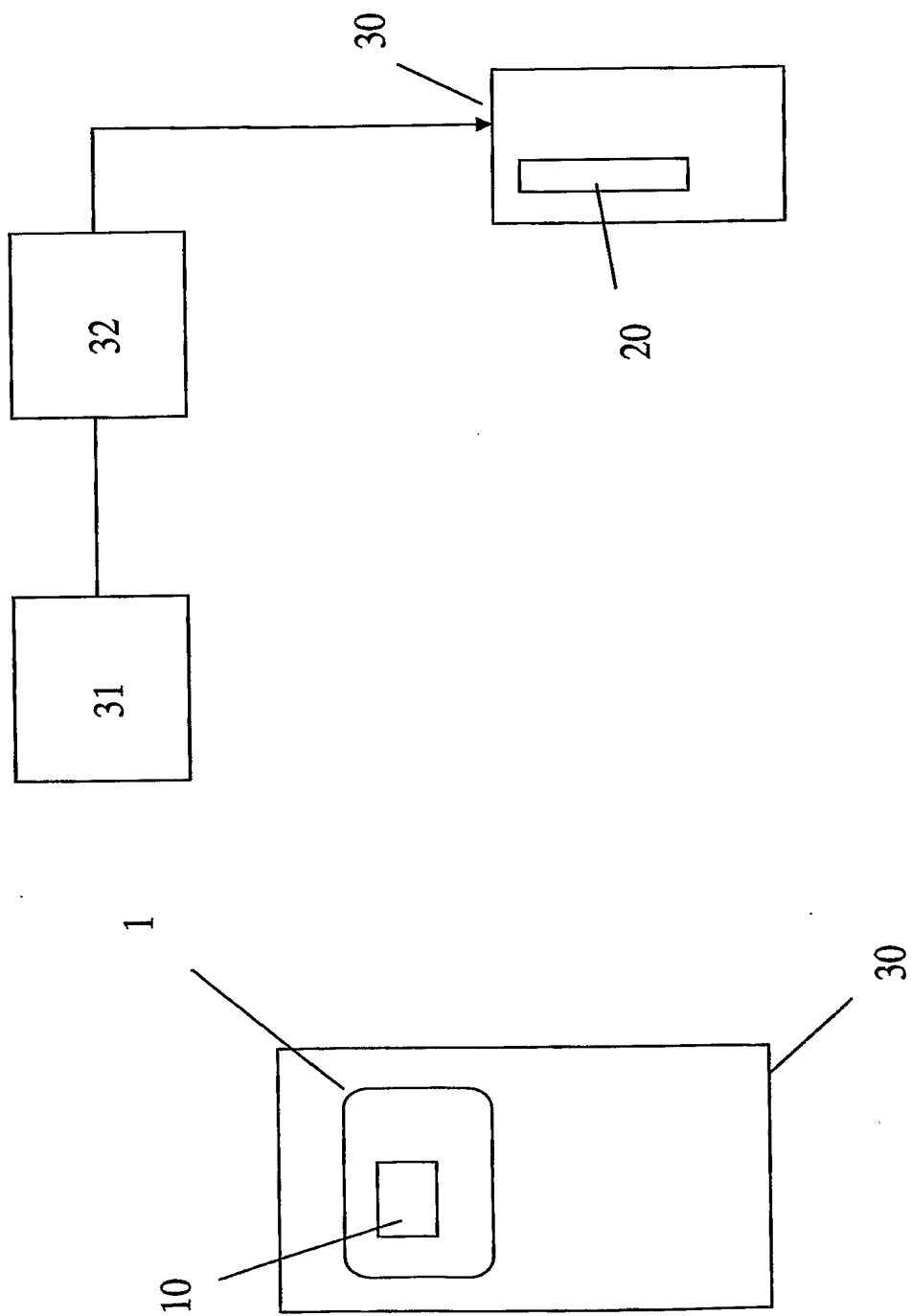


FIG. 1

FIG. 2

Entitlement Field 21	Validation Field 22	Verification Field 23	Price Field 24	Sequence Number Field 25	Validation Count Field 26
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FIG. 3